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NOTICE OF ALLOWANCE AND FEE(S) DUE

26111

7590

05/04/2009

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C. 1100 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005 EXAMINER

SAAD, ERIN BARRY

ART UNIT PAPER NUMBER

1793 DATE MAILED: 05/04/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/577.680	09/24/2007	Hans Bell	2380,0030000	8520

TITLE OF INVENTION: METHOD AND DEVICE FOR REFLOW SOLDERING WITH VOLUME FLOW CONTROL

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	08/04/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) 26111 7590 05/04/2009 STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C. 1100 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.			
			_				(Signature)
	T			. 1			(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ξ		RNEY DOCKET NO.	CONFIRMATION NO.
10/577,680 TITLE OF INVENTION	09/24/2007 I: METHOD AND DEVI	CE FOR REFLOW SOL	Hans Bell DERING WITH VOLUM	E FLOW CONTRO		2380.0030000	8520
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nonprovisional	NO	\$1510	\$300	\$0		\$1810	08/04/2009
EXAM	IINER	ART UNIT	CLASS-SUBCLASS]			
SAAD, ER	IN BARRY	1793	228-180210	_			
"Fee Address" ind PTO/SB/47; Rev 03-C Number is required. 3. ASSIGNEE NAME A PLEASE NOTE: Unl	ND RESIDENCE DATA	"Indication form ed. Use of a Customer A TO BE PRINTED ON ' ified below, no assignee	(1) the names of up to or agents OR, alternate (2) the name of a sing registered attorney or 2 registered patent attorned in the listed, no name will be THE PATENT (print or ty data will appear on the part of t	ively, le firm (having as a agent) and the namorneys or agents. If a printed. Type) patent. If an assign	memb es of u no nam	er a 2 p to le is 3	ocument has been filed for
4a. The following fee(s) Issue Fee Publication Fee (N	iate assignee category or	4l permitted)	b. Payment of Fee(s): (Ple A check is enclosed. Payment by credit ca	Individual Coase first reapply and	rporati ny prev is atta	on or other private gro iously paid issue fee s	up entity Government shown above) Ciciency, or credit any extra copy of this form).
	s SMALL ENTITY statu	is. See 37 CFR 1.27.	b. Applicant is no lo	nger claiming SMAI	L EN	ΓΙΤΥ status. See 37 CF	
interest as shown by the	records of the United Sta	tes Patent and Trademark	Office.	ше аррисані, а теді	outeu i	morney or agent, of th	e assignee of other party III
Authorized Signature				Date			
Typed or printed name			Registration No.				
an application. Confiden submitting the completed this form and/or suggesti	tiality is governed by 35 d application form to the ions for reducing this but irginia 22313-1450. DC	U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to th	1.14. This collection is estable depending upon the indice Chief Information Office	stimated to take 12 r vidual case. Any co eer, U.S. Patent and	ninutes mment Traden	s to complete, including s on the amount of tin park Office, U.S. Depa	by the USPTO to process) g gathering, preparing, and ne you require to complete attment of Commerce, P.O. for Patents, P.O. Box 1450,

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

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10/577,680	09/24/2007	Hans Bell	2380.0030000	8520	
26111 75	90 05/04/2009		EXAMINER		
STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C. 1100 NEW YORK AVENUE, N.W.			SAAD, ERIN BARRY		
			ART UNIT	PAPER NUMBER	
WASHINGTON, DC 20005			1793		
			DATE MAILED: 05/04/2009		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 44 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 44 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	Applicant(s)	
	10/577,680	BELL, HANS		
Notice of Allowability	Examiner	Art Unit		
	ERIN B. SAAD	1793		
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commu IGHTS. This application is s	this application. If not included inication will be mailed in due course.		
1. This communication is responsive to 4/24/2009.				
2. The allowed claim(s) is/are 1,3-9 and 11.				
 3. Acknowledgment is made of a claim for foreign priority units a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 		or (f).		
2. Certified copies of the priority documents have	e been received in Applicatio	n No		
3. Copies of the certified copies of the priority do	cuments have been received	d in this national stage application from	1 the	
International Bureau (PCT Rule 17.2(a)).				
* Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requiremen	nts	
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			OF	
5. CORRECTED DRAWINGS (as "replacement sheets") must	st be submitted.			
(a) ☐ including changes required by the Notice of Draftspers	son's Patent Drawing Reviev	v (PTO-948) attached		
1) ☐ hereto or 2) ☐ to Paper No./Mail Date				
(b) ☐ including changes required by the attached Examiner'Paper No./Mail Date	s Amendment / Comment or	in the Office action of		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			f	
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT				
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5 🗖 Notice of In	Formal Patent Application		
Notice of References Cited (F10-092) Notice of Draftperson's Patent Drawing Review (PTO-948)		ummary (PTO-413),		
2. Motice of Draitperson's Faterit Drawing Review (FTO-946)				
3. 🗵 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date <u>2/5/2009,3/19/2007,4/28/2006</u>	7. ☐ Examiner's	Mail Date Amendment/Comment		
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's	Statement of Reasons for Allowance		
of Biological Material	9.			
/ERIN B SAAD/	/Jessica L. Wa			
Examiner, Art Unit 1793		ent Examiner, Art Unit 1793		
	Capo, Nooly 1 di			



Application No.

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DETAILED ACTION

Allowable Subject Matter

- 1. Claims 1, 3-9 and 11 are allowed.
- 2. The following is an examiner's statement of reasons for allowance: The Prior Art of record, Chanasyk et al. (5,573,688) discloses an apparatus for reflow with valves capable of adjusting the gas volume flow into the chamber. However, Chanasyk fails to teach the method limitations of independent claim 1 including a soldering zone with a first volume flow and a second volume flow wherein the first volume flow is larger than the second volume flow and wherein the convection heater heats the item to be soldered from both sides with the first and second volume flows at the second temperature. Furthermore, the prior art of record fails to provide a teaching that would render such steps obvious.

Claims 3-9 and 11 are dependent on claim 1.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ERIN B. SAAD whose telephone number is (571)270-

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3634. The examiner can normally be reached on Monday through Thursday from 8am-

5pm Eastern time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Jessica Ward can be reached on (571) 272-1223. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/E. B. S./

Examiner, Art Unit 1793

4/21/2009

/Jessica L. Ward/

Supervisory Patent Examiner, Art Unit 1793